

## **A new species of *Milionia* Walker (Geometridae, Ennominae) from Irian Jaya, Indonesia**

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**Abstract** A new species, *Milionia mastrigti*, is described from Irian Jaya, Indonesia, with illustrations of moths and male genitalia.

**Key words** *Milionia*, Irian Jaya, Star Mountains, Mabilabol.

Recently I received as a gift from Mr Henk van Mastrigt two males of a new species of *Milionia* discovered by him in eastern mountain of Irian Jaya. He also kindly gave me data and photographs of nine males in his collection for my description of variation of the new species. Based on the eleven males the following description is given.

### ***Milionia mastrigti* sp. nov. (Figs 1–6)**

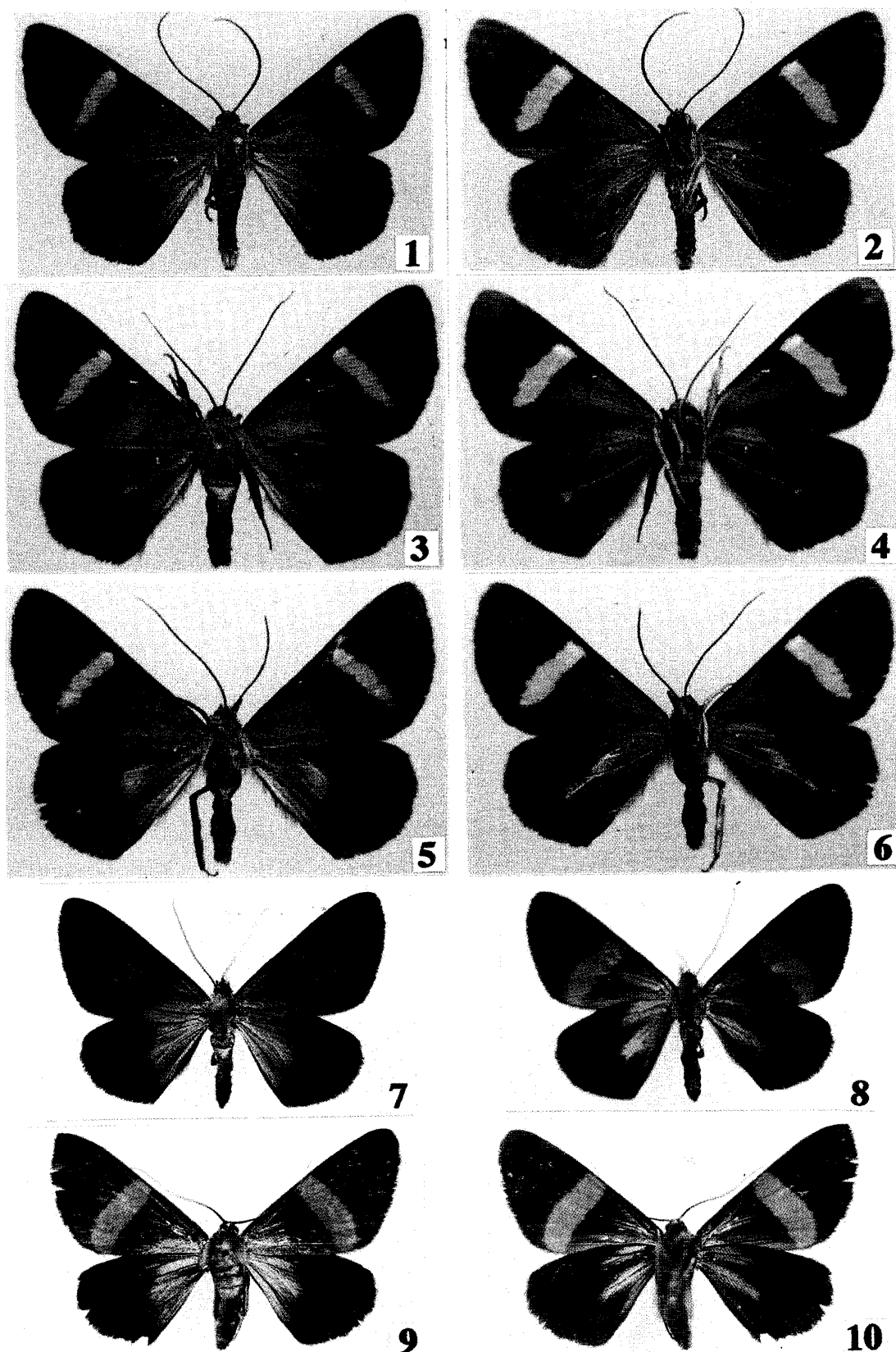
**Male.** Wingspan 41–43 mm. Body above and basal area of forewing strongly iridescent with greenish blue, the blue area of forewing extending beyond middle of hindmargin. Both wings velvety back, forewing with pale orange postmedian band, not reaching costa, posteriorly ending a little beyond vein 2. Hindwing faintly tinged with lustrous greenish blue at basal half, sometimes tinged with pale orange in cell or outside discocellulars.

**Under surface.** Forewing with postmedian band broader and paler than on above, rarely it is almost white. Both wings with lustrous greenish streaks at basi-dorsal half, but hindwing with the same coloured streaks on above and in cell, that on posterior margin of cell extending to two-thirds from base, sometimes hindwing tinged with weak lustrous blue at terminal area. Ill-defined orange mark of upper surface is reproduced or more strongly indicated.

**Male genitalia** (Fig. 11). Almost identical with those of *M. isodoxa* Prout, 1923: 210, from Papua New Guinea. Valva with costa almost straight, expanding toward apex, apex truncate, its posterior angle produced, a spinulose string-like sclerite below costa extending to the flat apex of costa, a short row of setae at middle of valva. Cornutus is identical with many other congeners in size and shape. The spined areas are more robust and aedeagus broader than in *isodoxa*.

**Female** unknown.

**Holotype**, ♂: Irian Jaya, Papua Prov., Star Mountains, Mabilabol, 1,450 m, 25–30. iii. 2000 (Henk van Mastrigt leg.). **Paratypes**: type-locality, vi. 1977, 1 ♂; 14. iii. 1988, 1 ♂; 25–30. iii. 2000, 5 ♂; 4–9. iv. 2003, 3 ♂ (same collector). Holotype and eight paratypes are currently in coll. Henk van Mastrigt, but the holotype and one paratype will later be transferred to The Natural History Museum, London, two paratypes to the Zoological Museum of the University of Amsterdam and one paratype to Museum Zoologi Bogor. Two paratypes are in coll. H. Inoue.



Figs 1-10. *Milionia* spp. 1-6. *M. mastrigti* sp. nov. (1: holotype ♂, 2: underside, 3: paratype ♂, 4: underside, 5: paratype ♂, 6: underside). 7-10. *M. isodoxa* Prout. (7: ♂, 8: underside, 9: ♀, 10: underside). Photos of Figs 1-6 taken by H. v. Mastrigt.

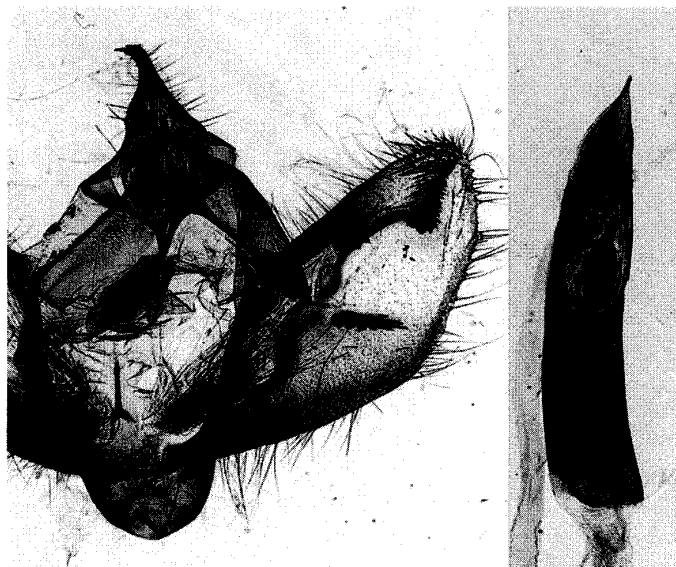


Fig. 11. Male genitalia of *M. mastrigti* sp. nov. (HI Slide 17579).

Distribution. Irian Jaya, Indonesia.

Etymology. The new species is dedicated to Mr Henk van Mastrigt, the discoverer of this remarkable new species.

This species is closely related to *M. isodoxa* Prout (Figs 7–10) from Papua New Guinea, but a little larger, wings a little ampler as *M. mediorubra* Inoue, 2000: 81, figs 5, 20, from Irian Jaya. The lustrous area of body and wings not pure blue but greenish blue, the band of forewing not red, much narrower, not reaching costa and hindmargin. The irregular orange tone or mark of hindwing is exceptional for the known species of the genus. In *isodoxa* (Figs 7–10) the colour of the band usually red, but very rarely in female pale orange. Hindwing with basal lustrous area much more extended in *isodoxa*. In *M. mediorubra* forewing with the band red, narrower than in *isodoxa*, basal lustrous area of both wings darker blue than in *isodoxa*.

This new species has so far been collected only at one place: Mabilabol, Star Mountains, eastern Irian Jaya, from March to June.

### Acknowledgements

I will express my sincere thanks to Mr Henk van Mastrigt, Jayapura, Indonesia, for his kind gift of specimens and photographs of moths. My thanks also go to Dr M. Owada, National Science Museum, Tokyo, for taking microphotographs of the male genitalia illustrated in this paper.

### References

- Inoue, H., 2000. Nine new species and two new subspecies of the genus *Milionia* Walker (Geometridae, Ennominae). *Trans. lepid. Soc. Japan* **51**: 77–87.  
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## 摘 要

西イリアンからの *Milionia* 属 (シャクガ科) の 1 新種 (井上 寛)

インドネシア西イリアンから *Milionia mastrigti* Inoue という新種を記載した. 今のところパプアニューギニアとの国境に近い Star Mountains の Mabilabol (1,450 m) でとれた 11 羽しか知られていない. パプアニューギニアの *M. isodoxa* Prout と近縁だが, やや大型で翅型や前翅の帯の色が異なるし, 後翅にオレンジ色の斑紋を表わすことが多い. なお *isodoxa* の幼虫は高地に植栽されたナンヨウスギ (*Araucaria cunninghamii*) の害虫として知られている.

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